

Omit from inventory - flows too small

Site No. 19050002-138 <sup>76</sup> <sub>479</sub>

### UNDEVELOPED HYDROELECTRIC SITE

State ALASKA County \_\_\_\_\_ Site HONOLULU Creek

Location Section 27, T 21S, R 10W Fairbanks Meridian Stream Honolulu Creek Hill Chulitna

Planned by (date) USGS

Reference HEALY (A-5) Alaska Quad 44B 1952-53 Date 1952

Quadrangle coverage HEALY (A-5) ALASKA

Land: Public \_\_\_\_\_ Private \_\_\_\_\_ Use: P, I, FC, MI, R

<u>WS Elev = 1900'</u>	
Dam: Height <u>230 feet</u> Length _____	Undeveloped capacity <sup>at dam</sup> <u>3.70mw</u> - <sup>diversion</sup> <u>7.40mw</u> <u>theoretical</u>
Normal pool altitude <u>2130 feet</u>	Percent efficiency <sup>Q50 =</sup> <u>0.7 MW</u> <u>1.3 MW</u>
Reservoir area <u>586 acres</u> at <u>2200' alt.</u>	Annual generation _____
Storage capacity <u>35,000 ac-ft</u>	Plant factor <u>100 cfs = 72,500 acft/yr</u>
Drainage area <u>55.6 square miles</u> <u>3.4 cfs/mi<sup>2</sup></u>	Mean flow <u>189.25 cfs = 137,022 acft/yr.</u>
Gross head <u>2130-1670 = 460 feet, 1.5 mile diversion</u>	Period of record <u>14 yrs (1975) gage 15292400, area ratio</u>

Remarks: Comparison with gage 15292400 gives too high mean flow because this site has no glaciers - about 1.8 cfs/sqmi seems more realistic.

Q50 Est = 100/2.9 = 34 cfs

Prepared by TJK Date 8/78  
SRO 12/78